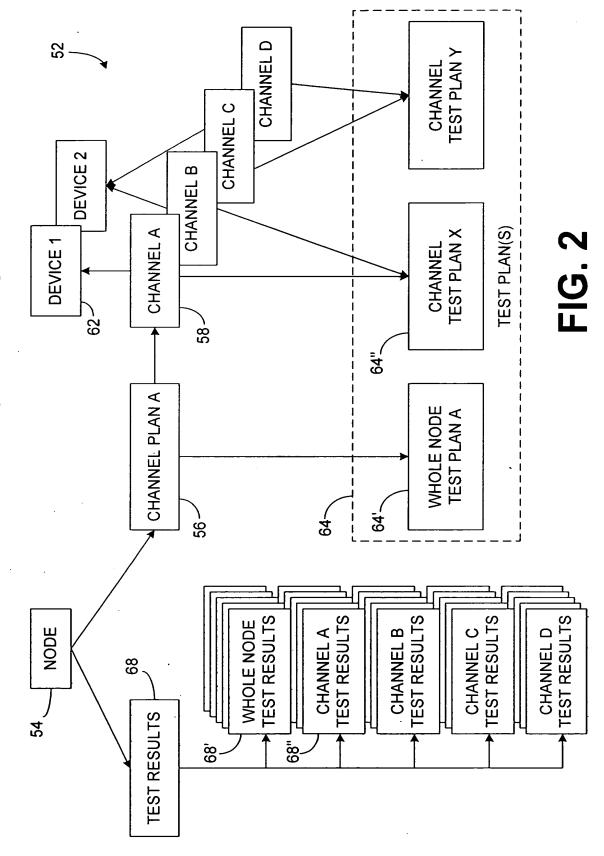


## DATA STRUCTURE OF DATABASE



### CHANNEL PLAN

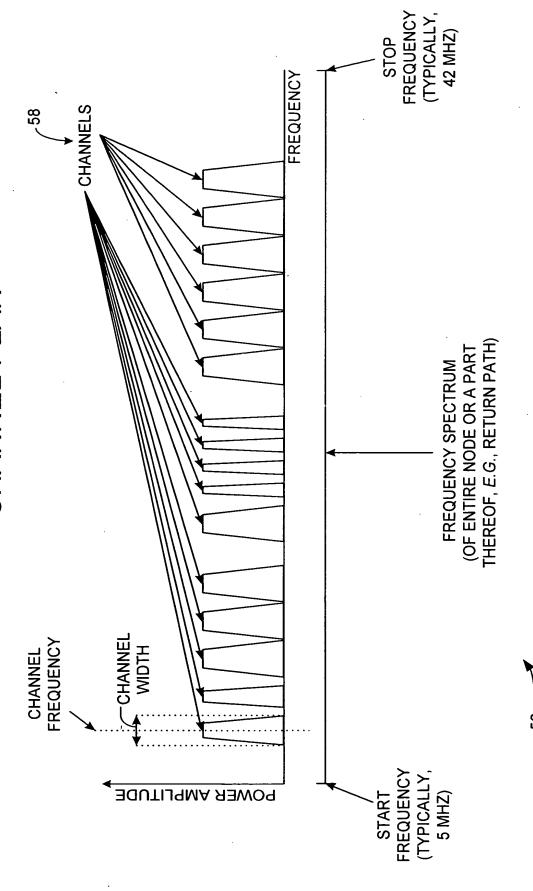
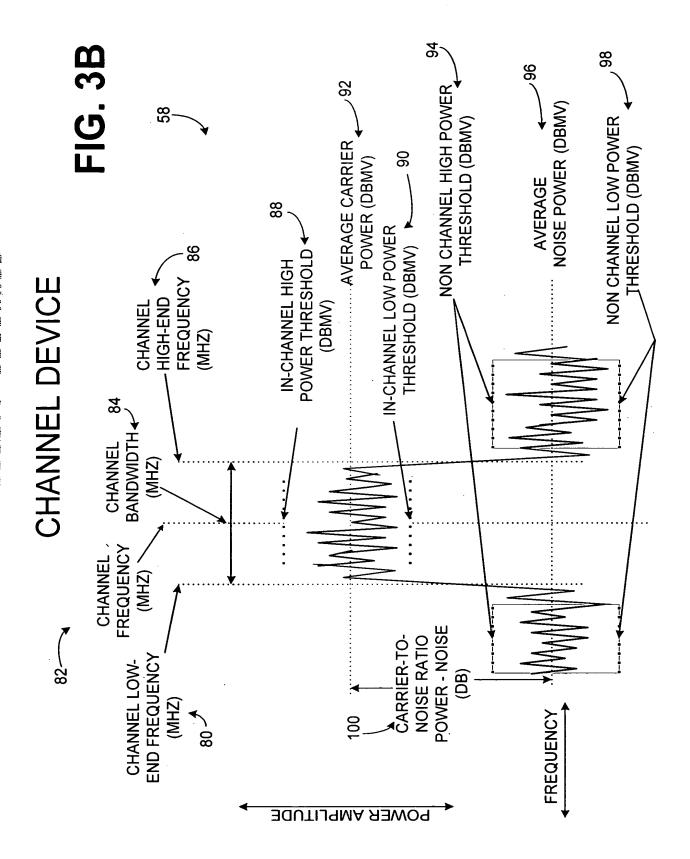


FIG. 3A



### **TEST PLAN**

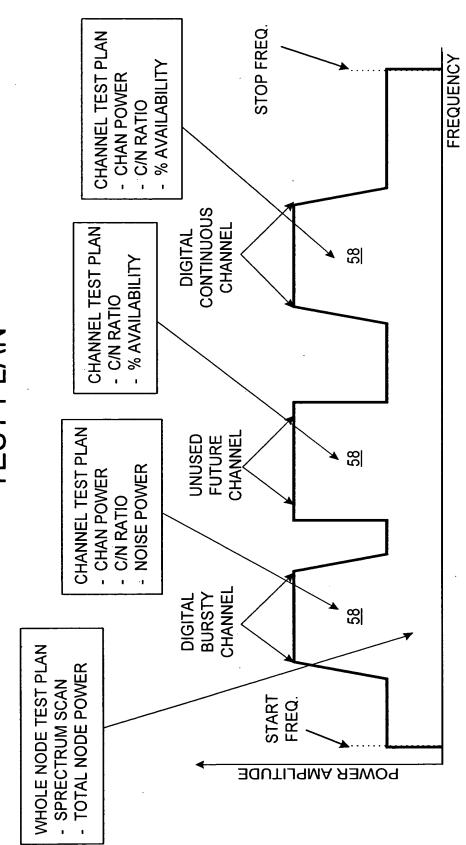


FIG. 3C

64

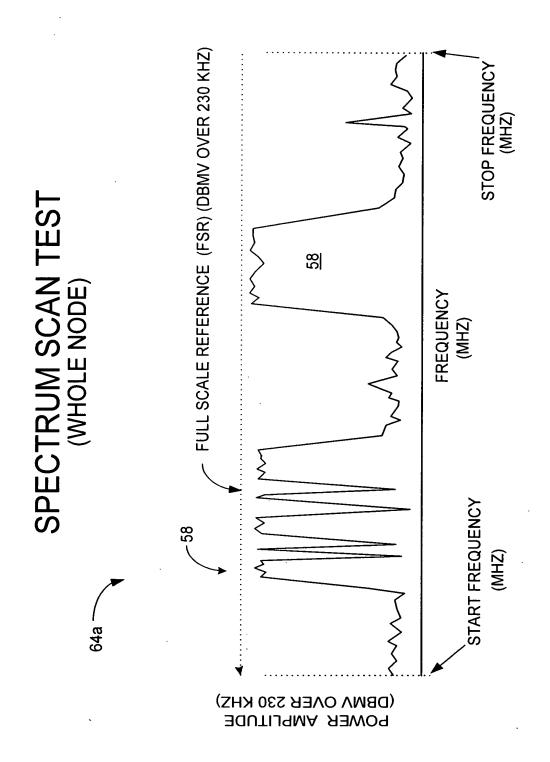


FIG. 3E

### STOP FREQ. - 64a SPECTRUM SCAN TEST (ALARM LIMITS) CONTINUOUS FREQUENCY **BURSTY CHANNELS** START FREQ. POWER AMPLITUDE EPL FROM CHANNEL PLAN "BELOW" LIMIT " "ABOVE" LIMIT

FIG. 3E

## TOTAL NODE POWER TEST (WHOLE NODE)

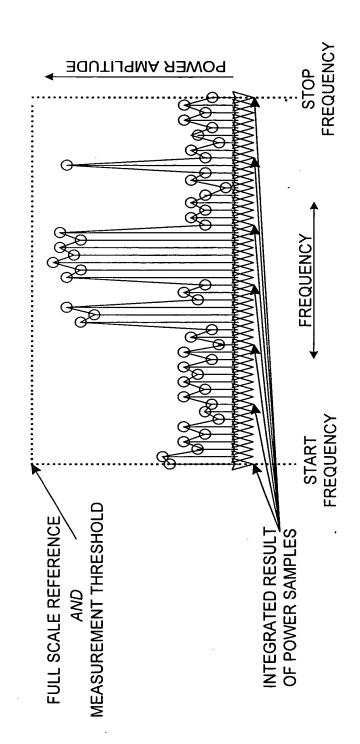


FIG. 3F

## AVERAGE NOISE POWER TEST (CHANNEL)

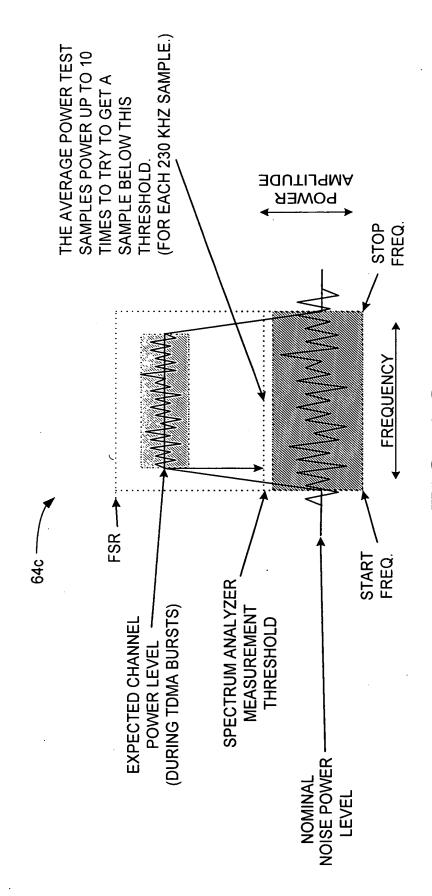


FIG. 3G

# AVERAGE NOISE POWER TEST (ALARM LIMITS)

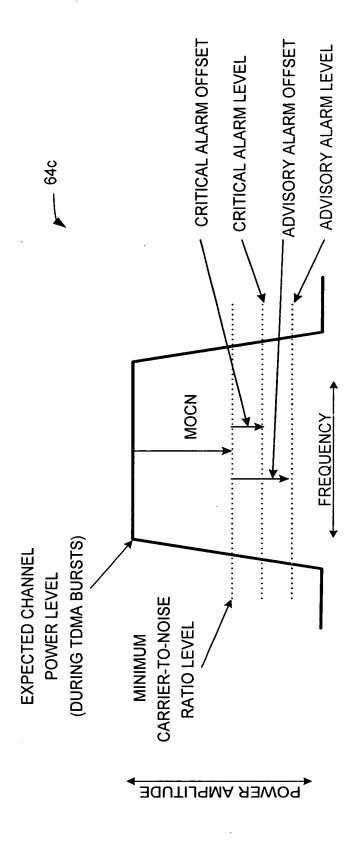


FIG. 3H

### CHANNEL POWER TEST (CHANNEL)

64d —

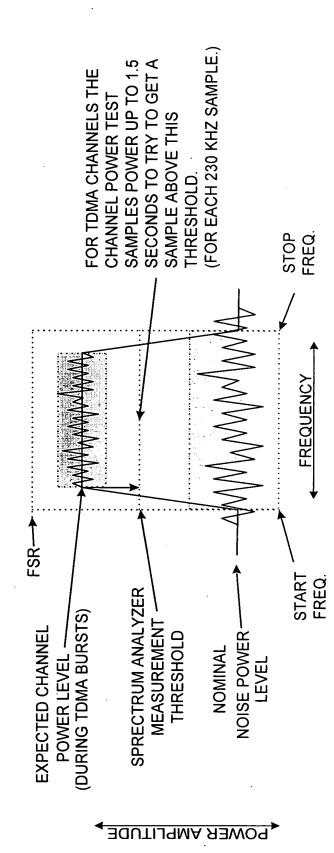


FIG. 3

## CHANNEL POWER TEST (ALARM LIMITS)

64d

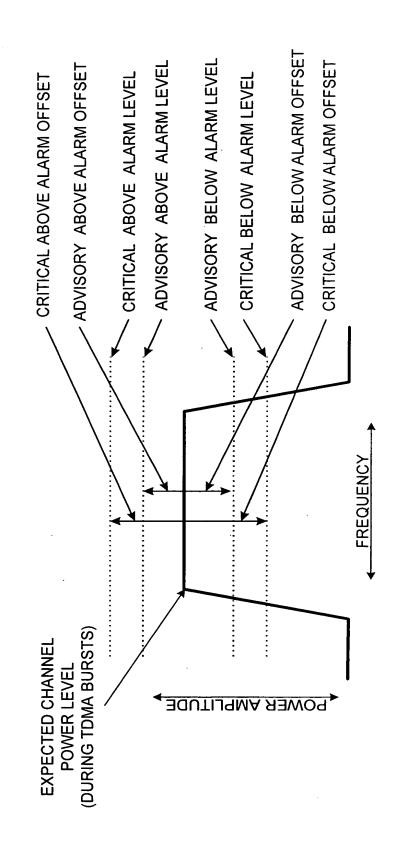


FIG. 3J

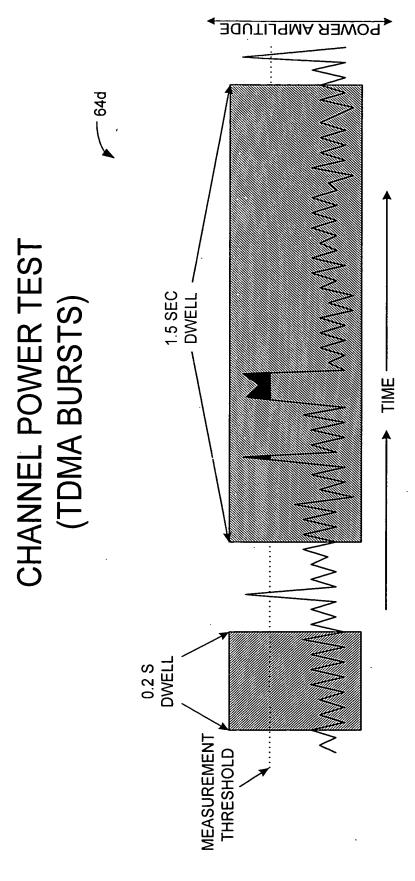


FIG. 3K

### C/N TEST (CHANNEL)

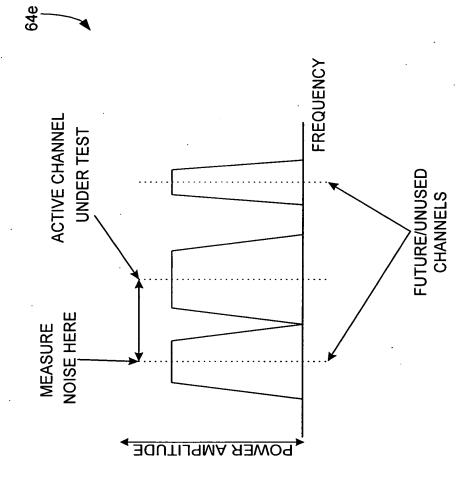


FIG. 3L

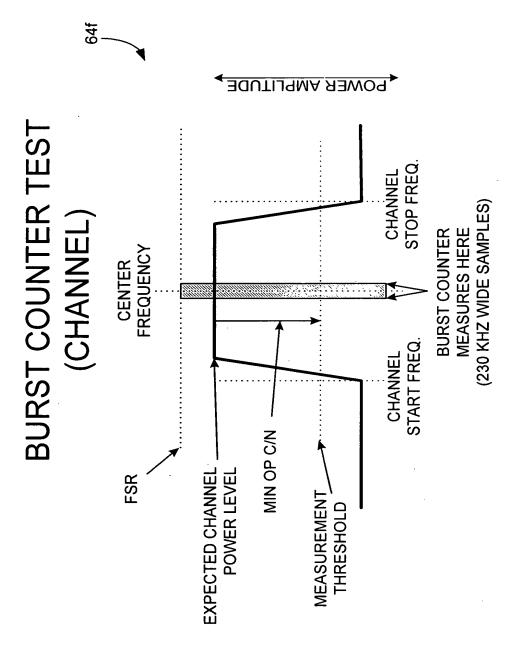


FIG. 3M

FREQUENCY

# PERCENT AVAILABILITY TEST (CHANNEL)

-649

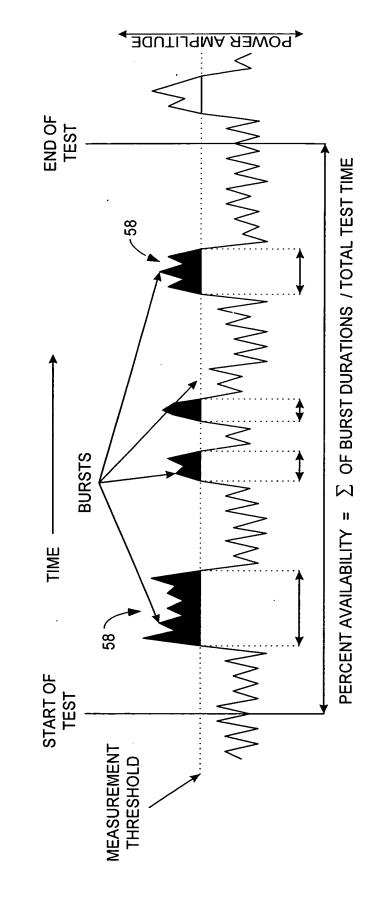


FIG. 3N

## PERCENT AVAILABILITY TEST (ACTIVE CHANNELS)

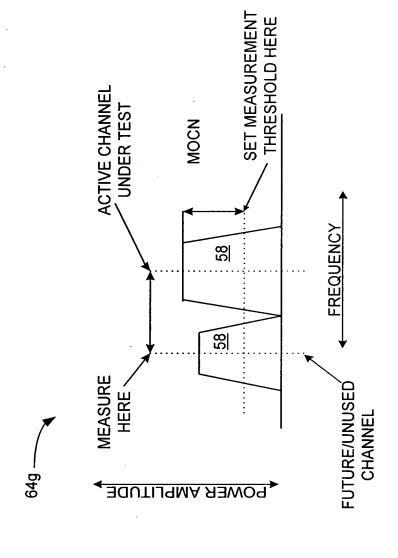


FIG. 30

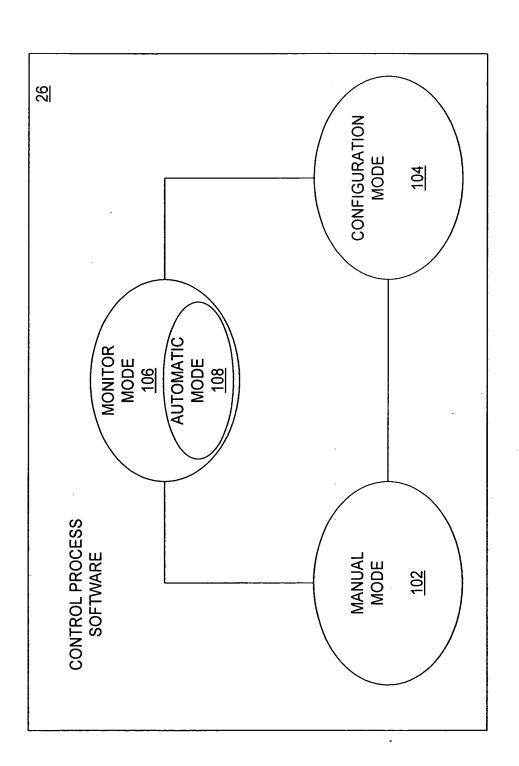


FIG. 4

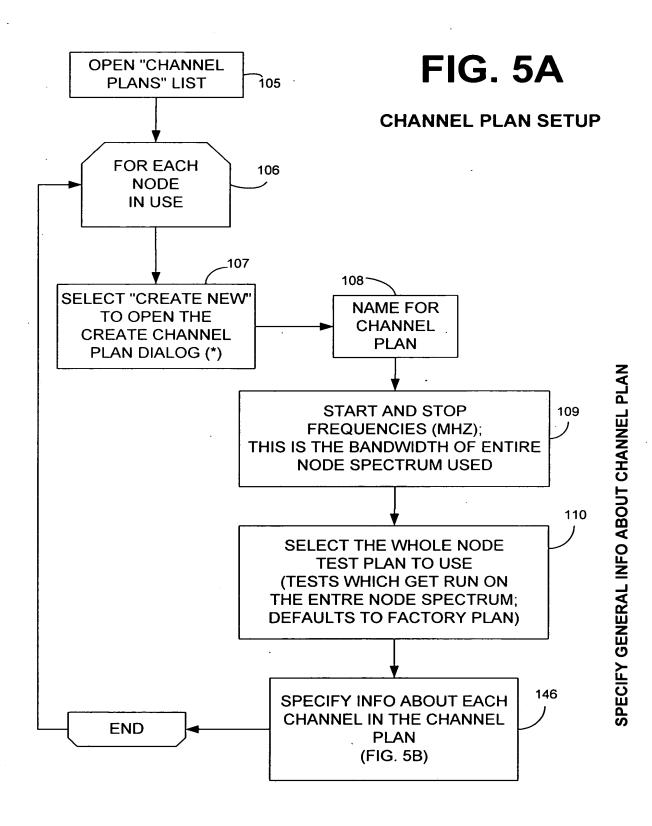
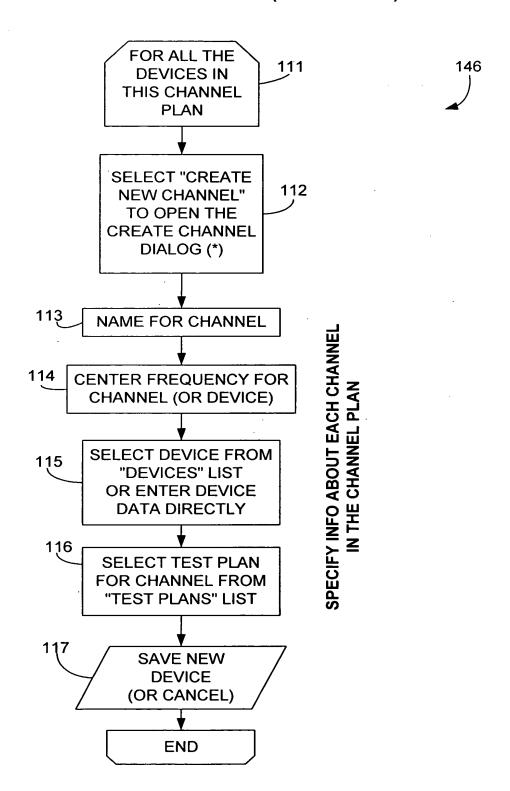
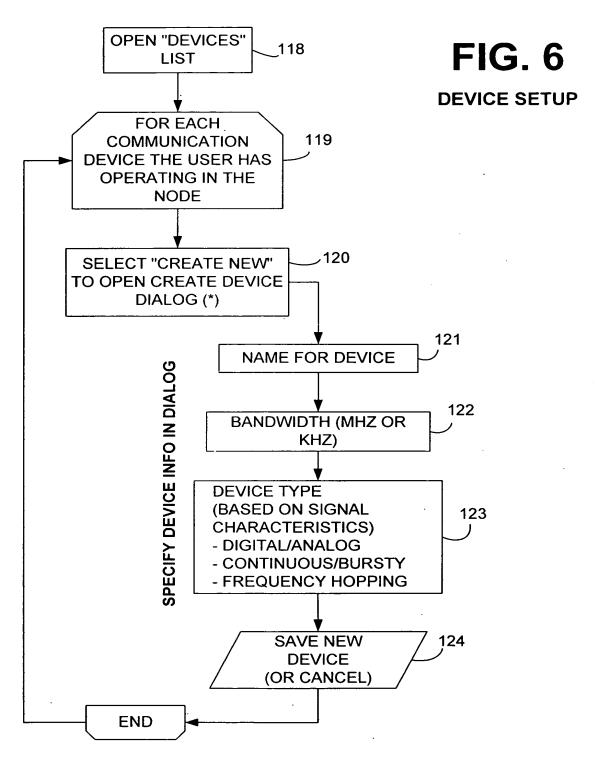


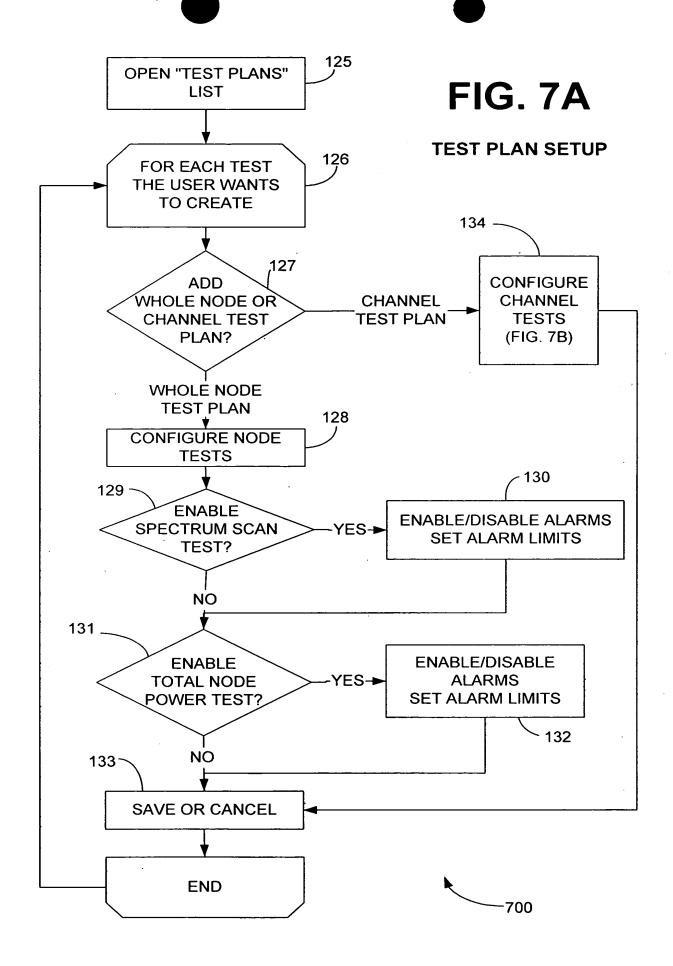
FIG. 5B

### **CHANNEL PLAN SETUP (CONTINUED)**





\* NOTE: DEVICE LIST DIALOG ALSO ALLOWS USER TO EDIT OR DELETE DEVICES.



### **TEST PLAN SETUP (CONTINUED)**

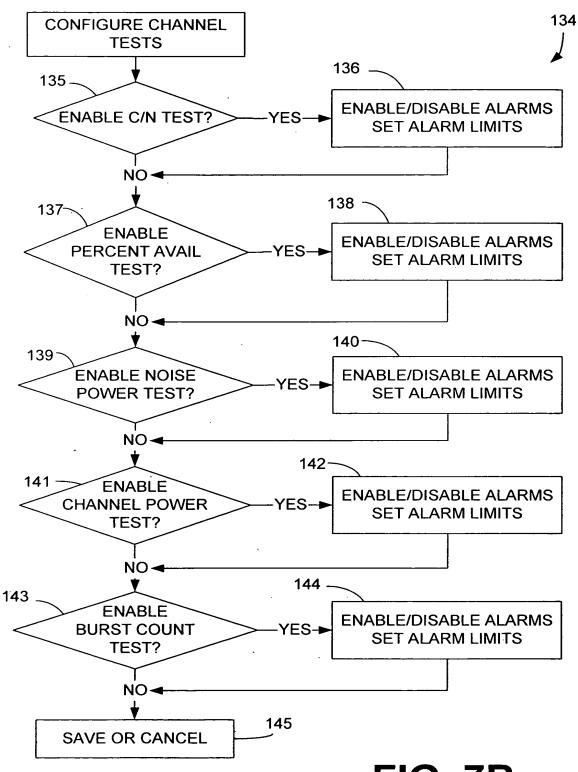
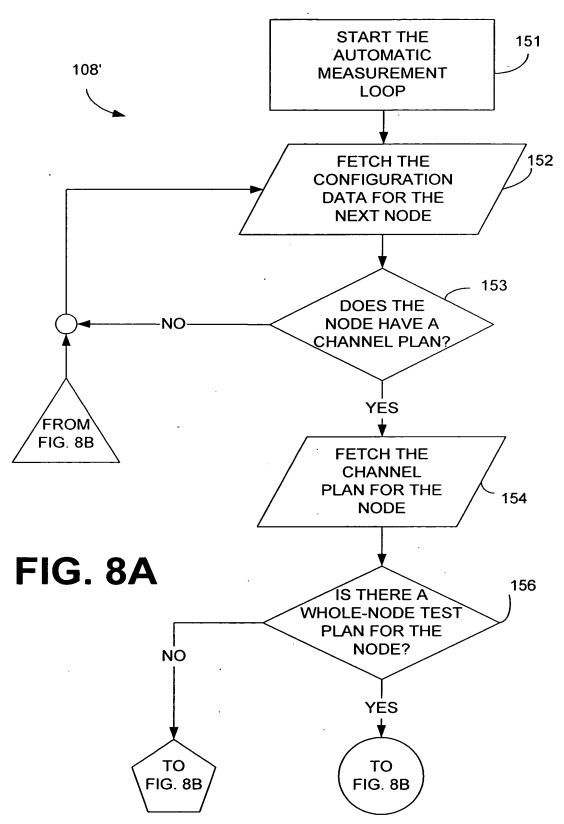
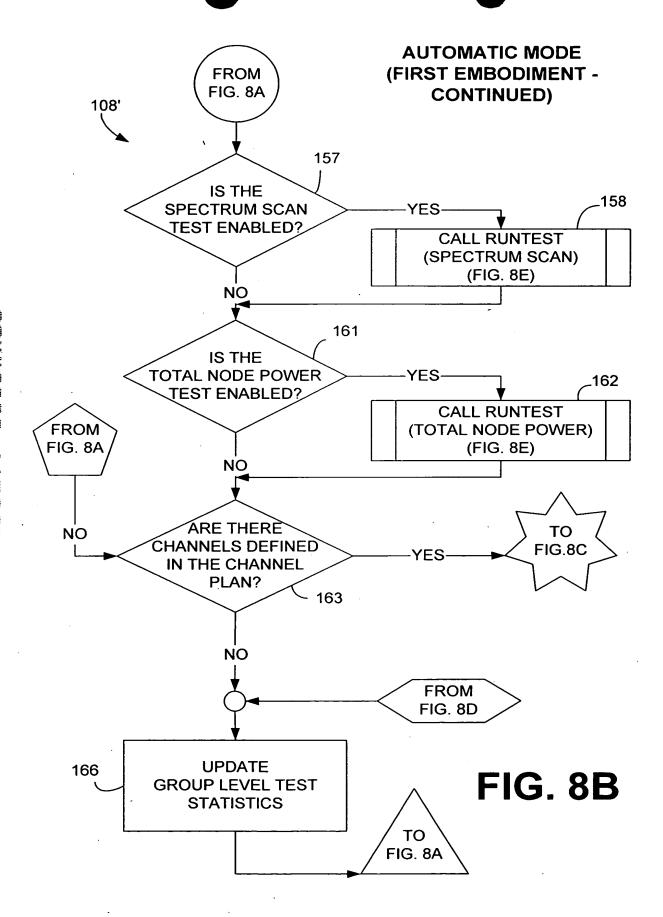
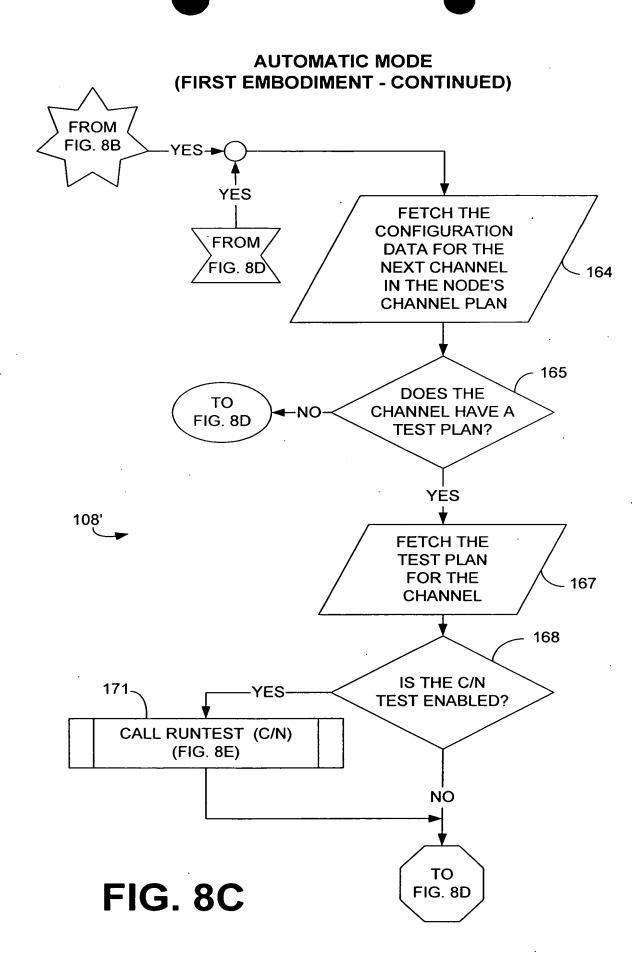


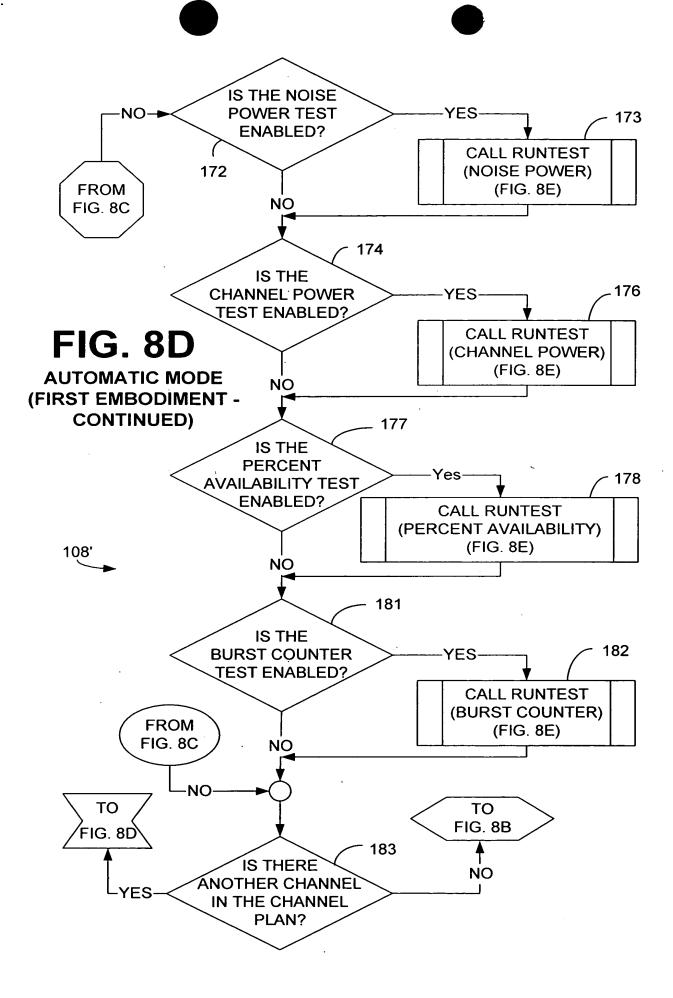
FIG. 7B

### AUTOMATIC MODE (FIRST EMBODIMENT; EMPLOYS ROUND ROBIN ALGORITHM)



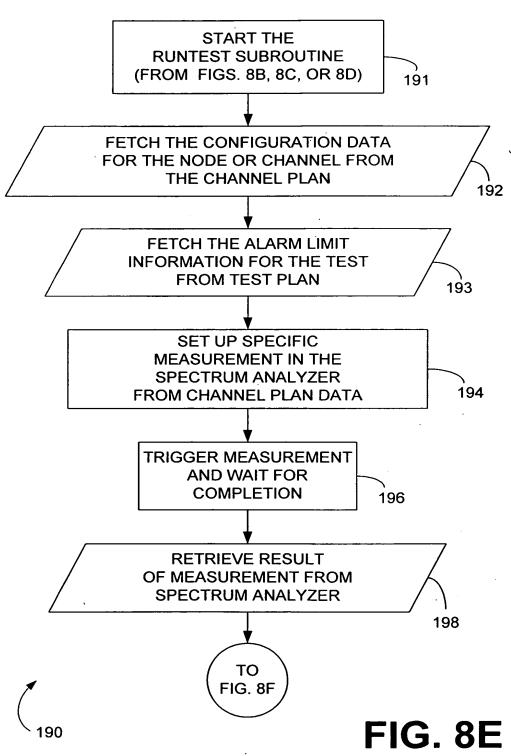




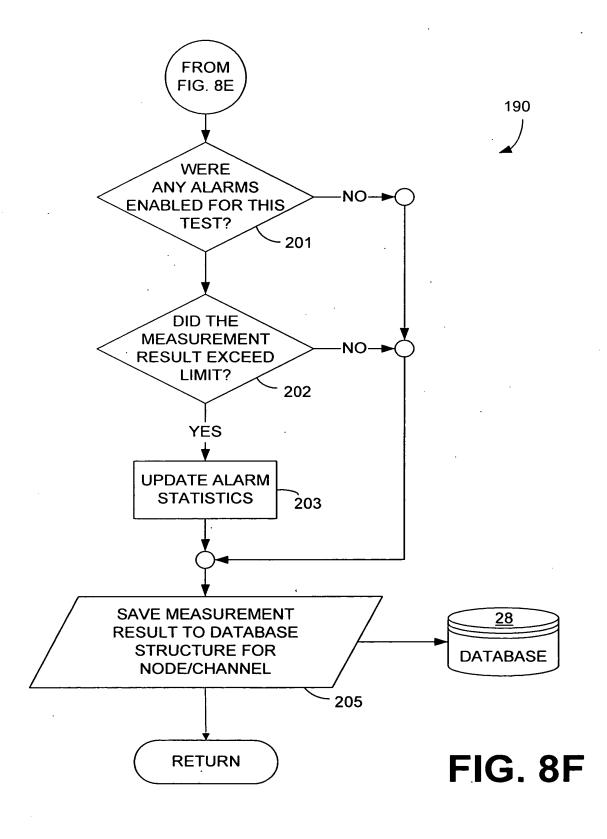


### AUTOMATIC MODE (FIRST EMBODIMENT - CONTINUED)

### RUNTEST SUBROUTINE



### AUTOMATIC MODE (FIRST EMBODIMENT - CONTINUED)



### AUTOMATIC MODE (SECOND EMBODIMENT; EMPLOYS SMART SCANNING ALGORITHM)

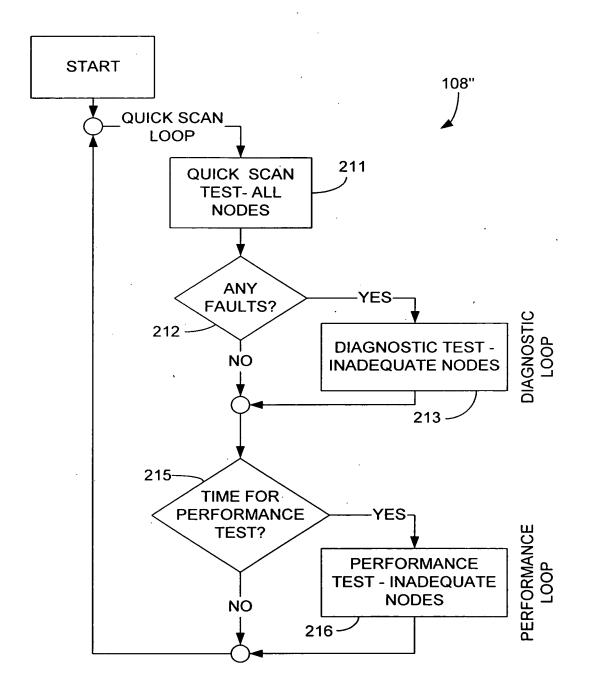
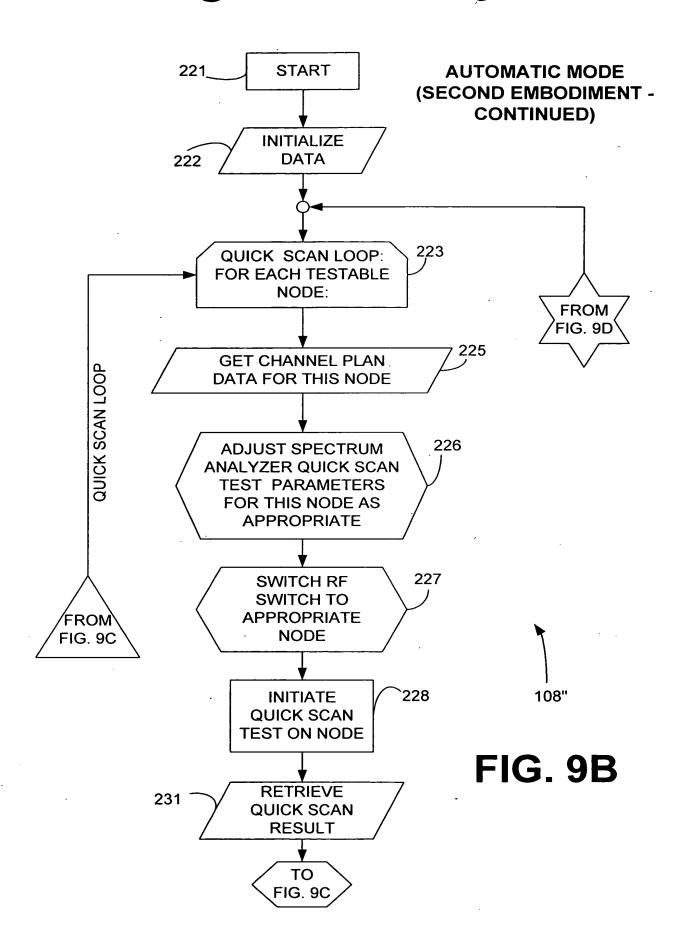
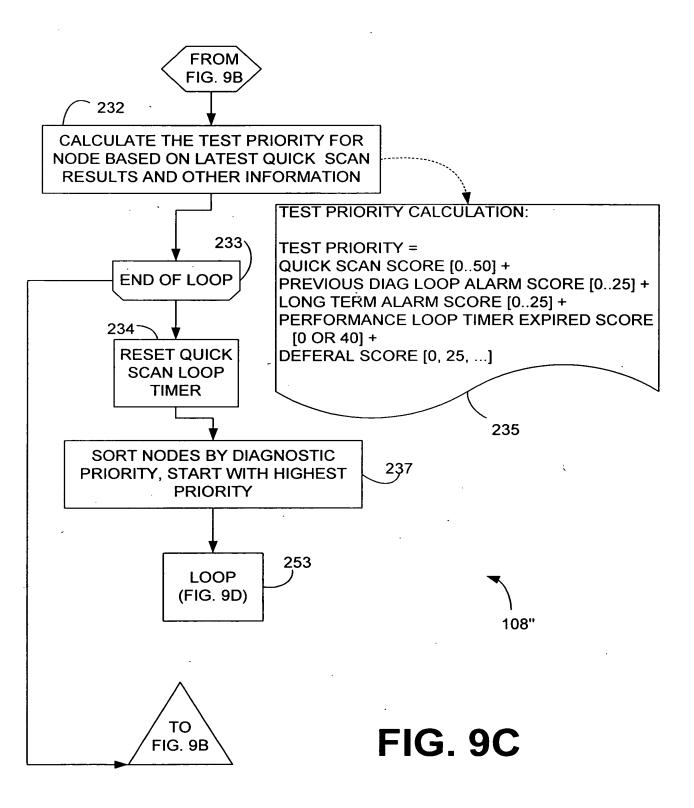


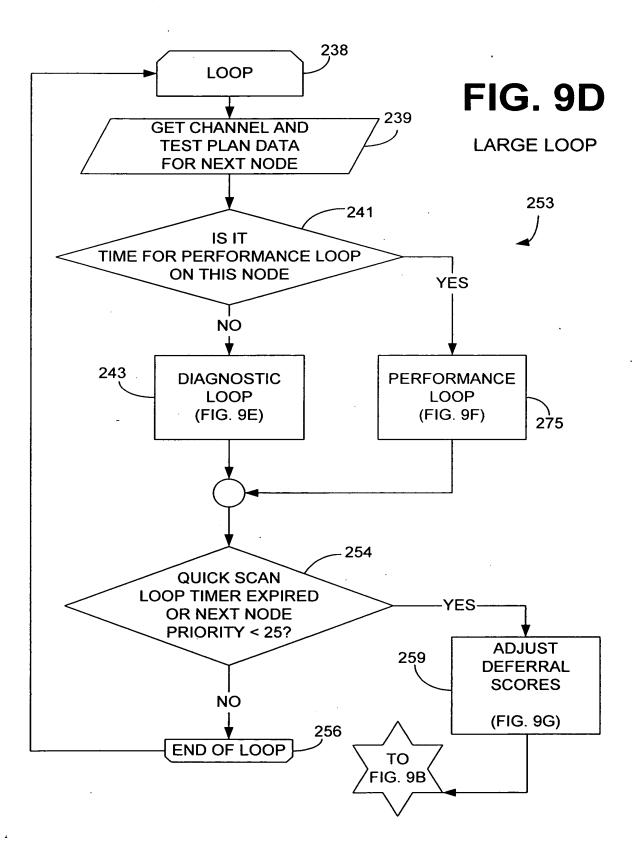
FIG. 9A



### AUTOMATIC MODE (SECOND EMBODIMENT - CONTINUED)



### AUTOMATIC MODE (SECOND EMBODIMENT - CONTINUED)



### AUTOMATIC MODE (SECOND EMBODIMENT - CONTINUED)

### **DIAGNOSTIC LOOP**

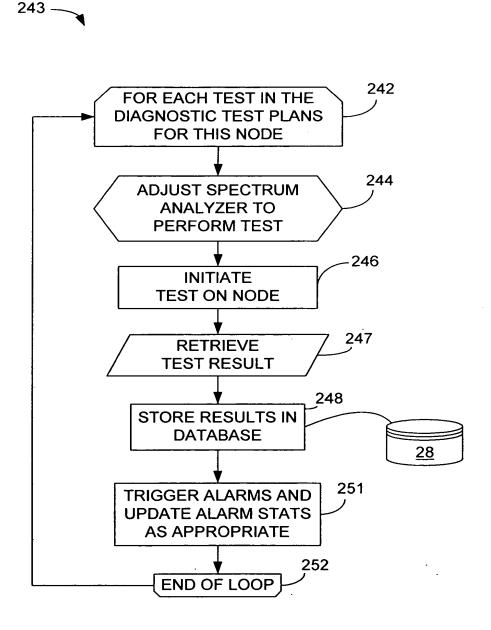
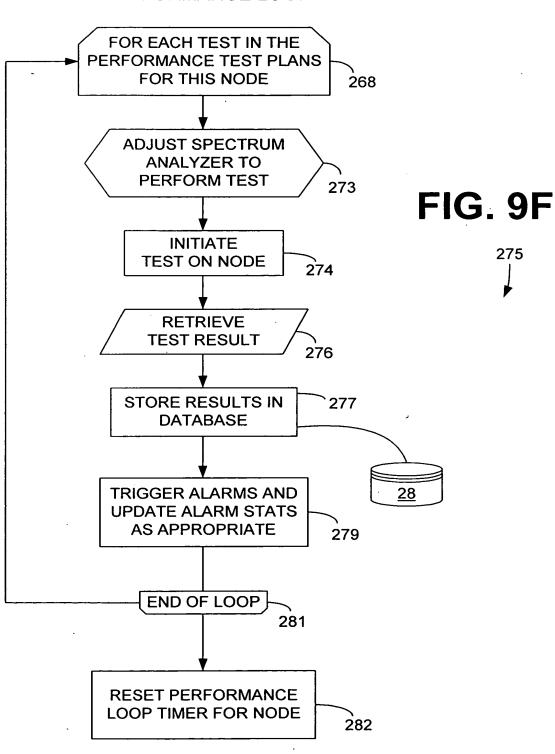


FIG. 9E

### AUTOMATIC MODE (SECOND EMBODIMENT - CONTINUED)

#### PERFORMANCE LOOP



## AUTOMATIC MODE (SECOND EMBODIMENT - CONTINUED)

#### ADJUST DEFERAL SCORES LOOP

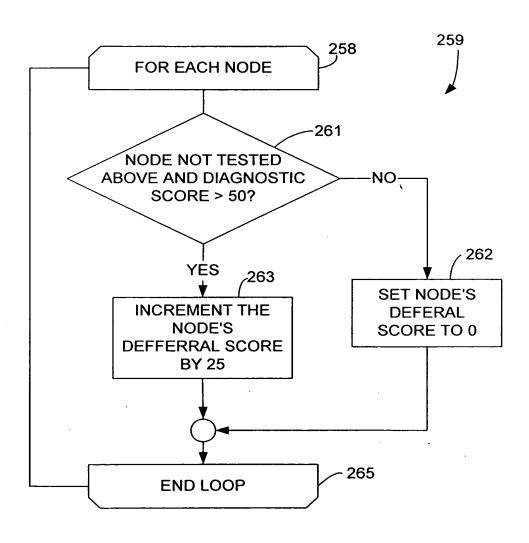
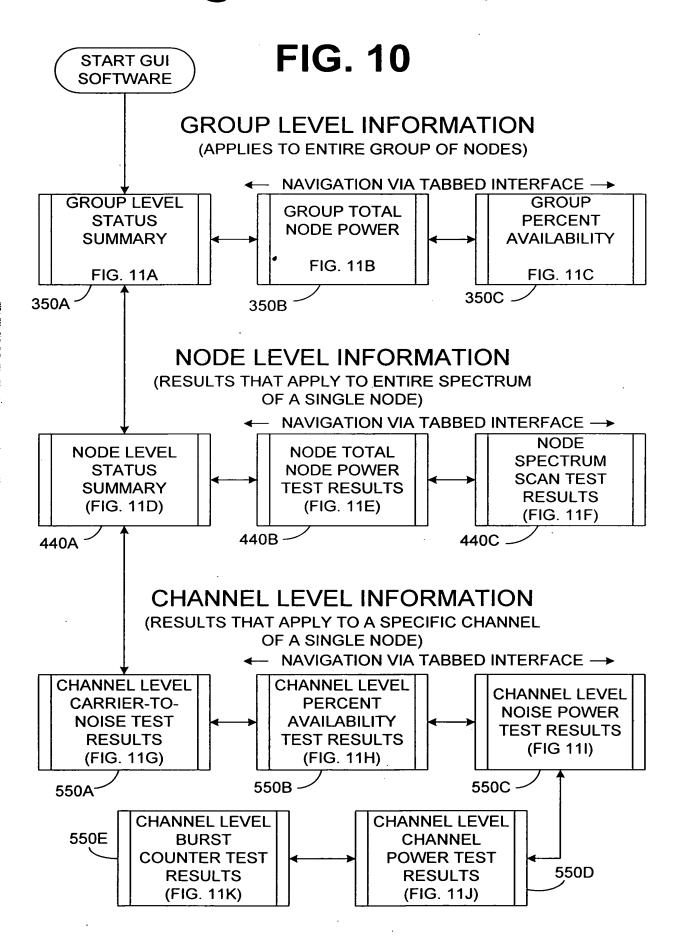
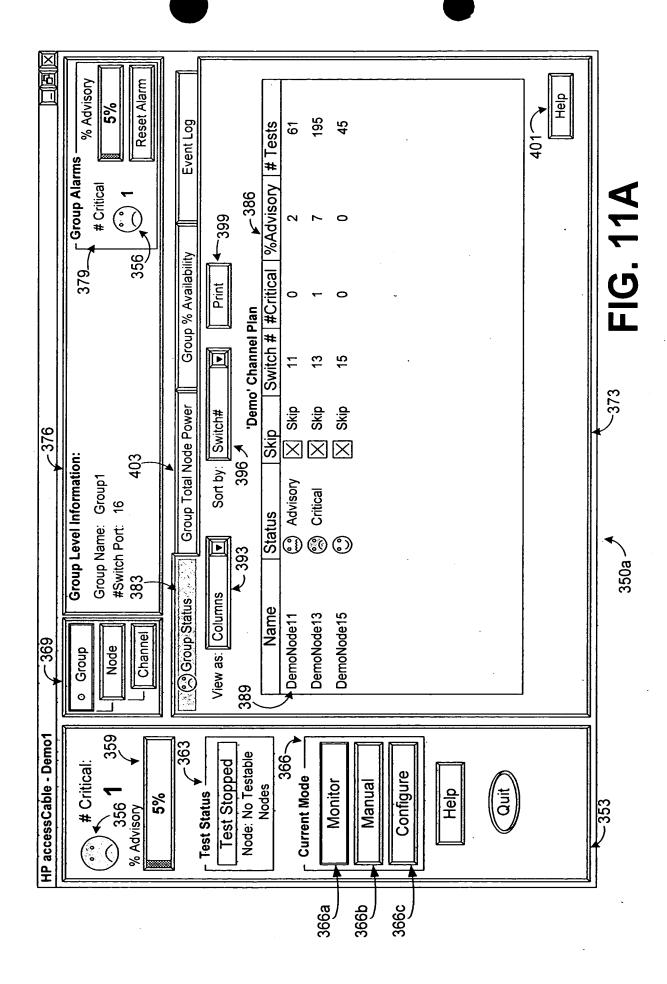
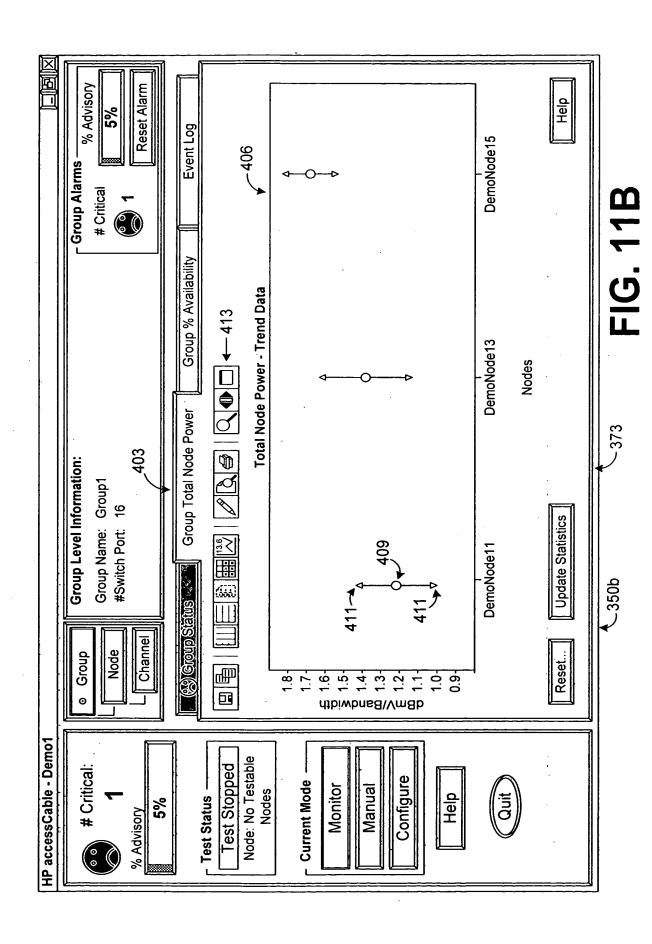
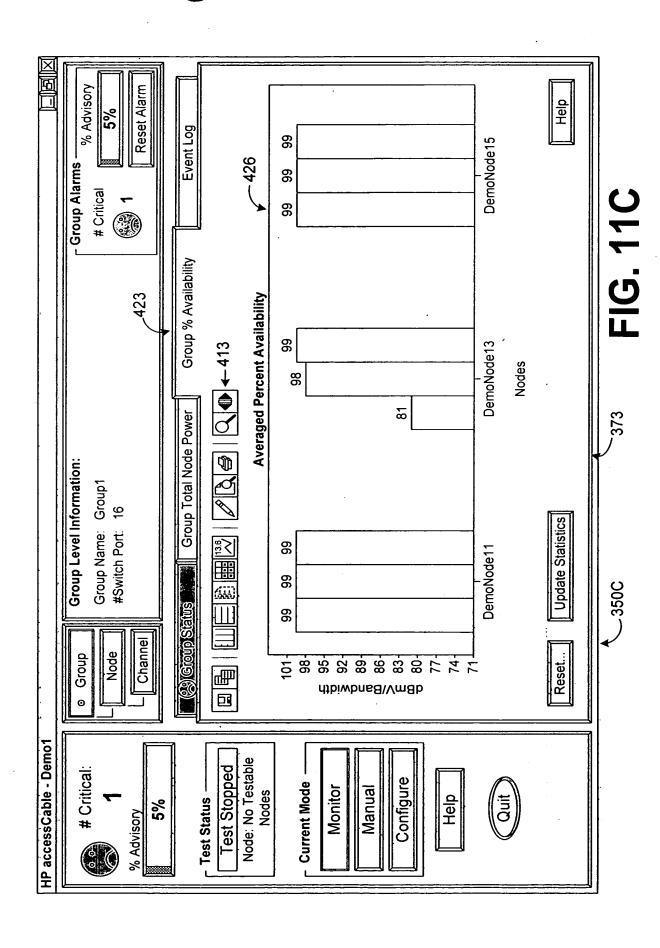


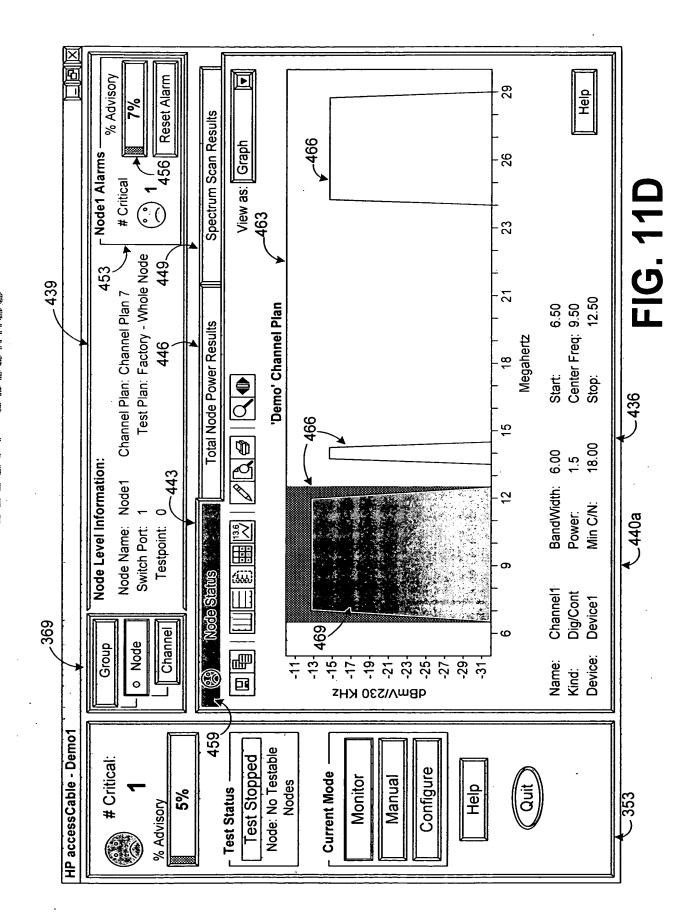
FIG. 9G

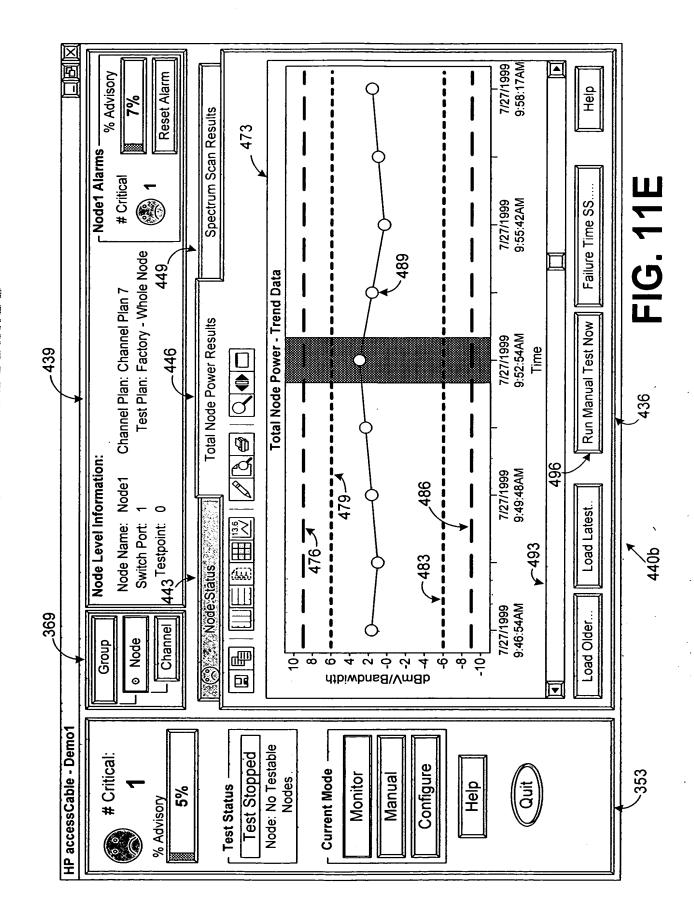


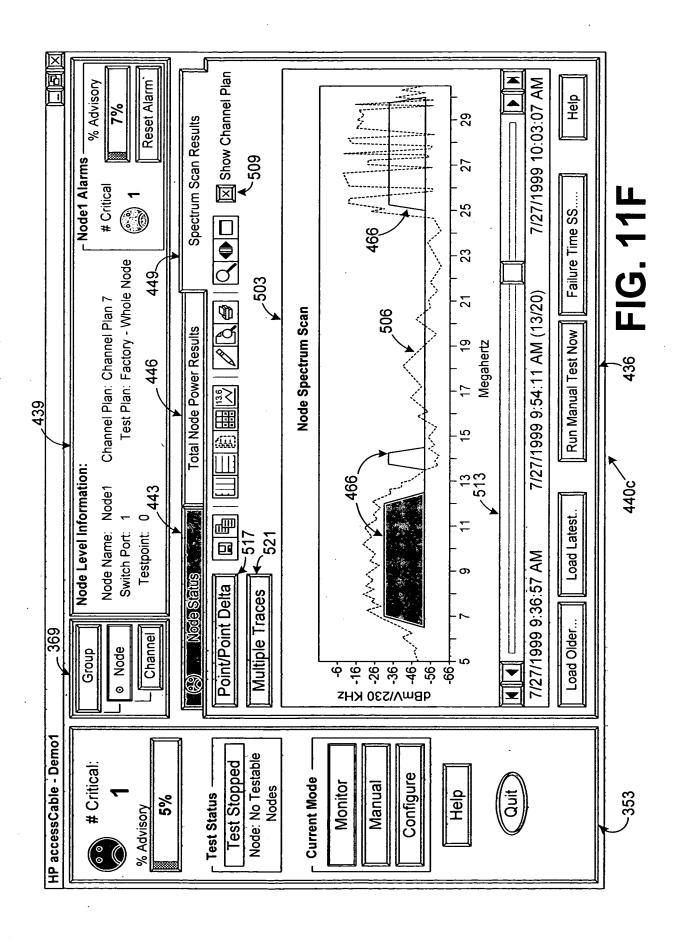


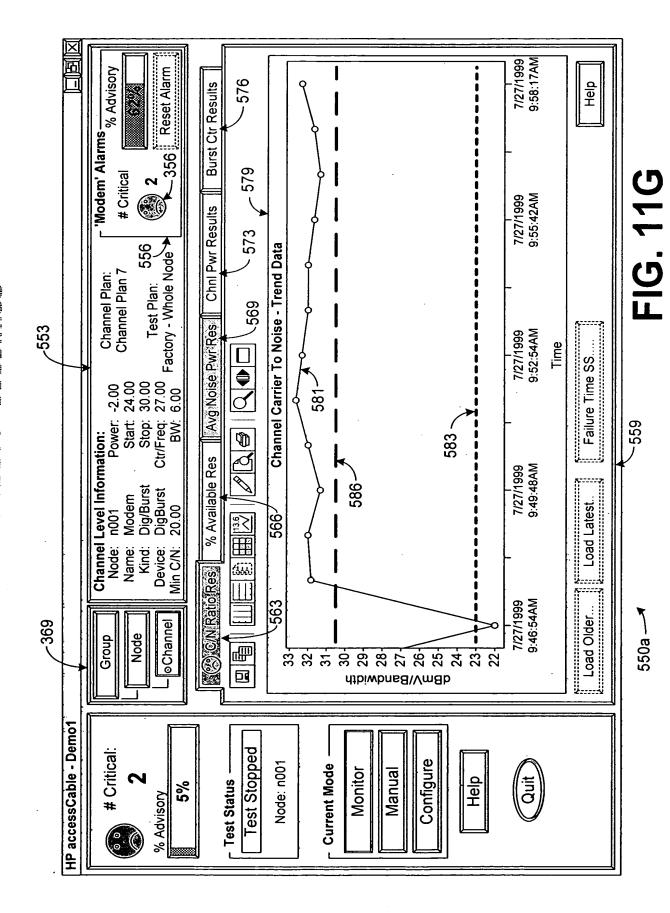












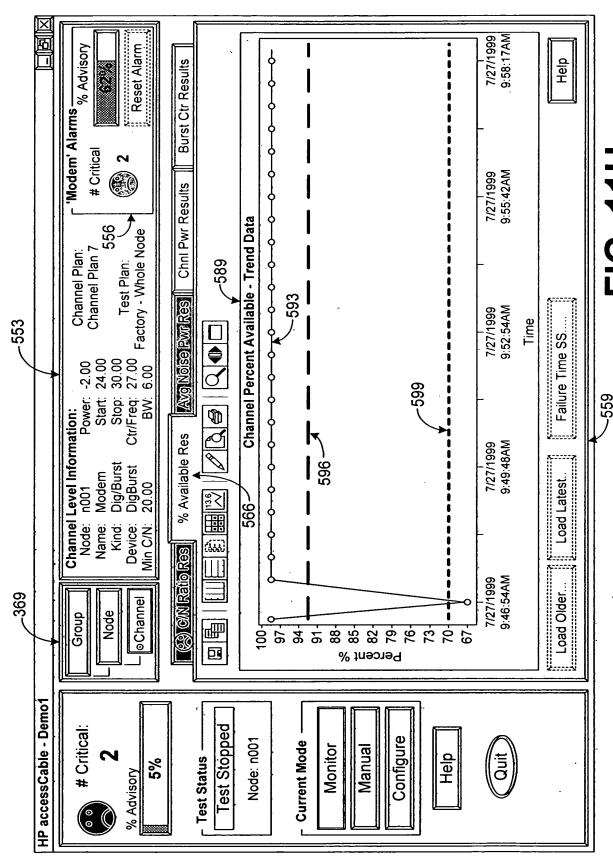


FIG. 11H

550a-

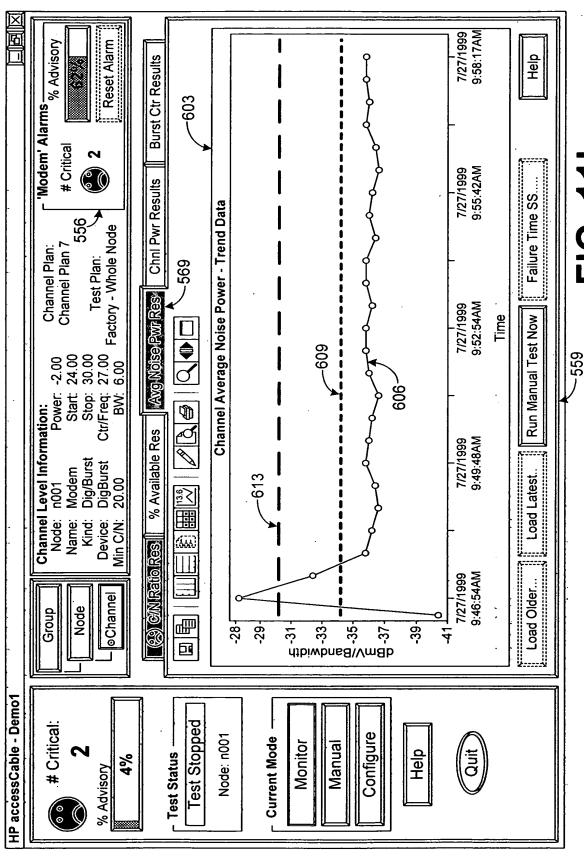


FIG. 11

550c

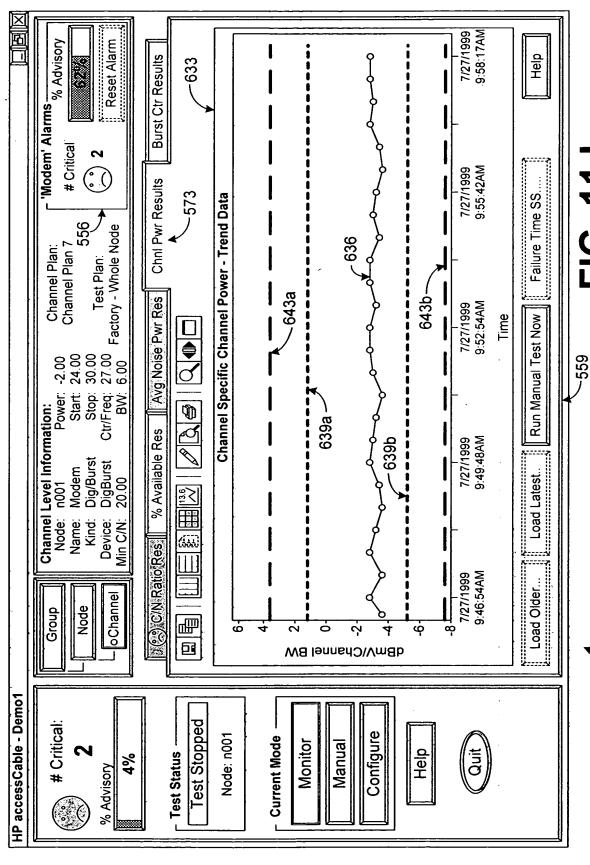


FIG. 11

- p099

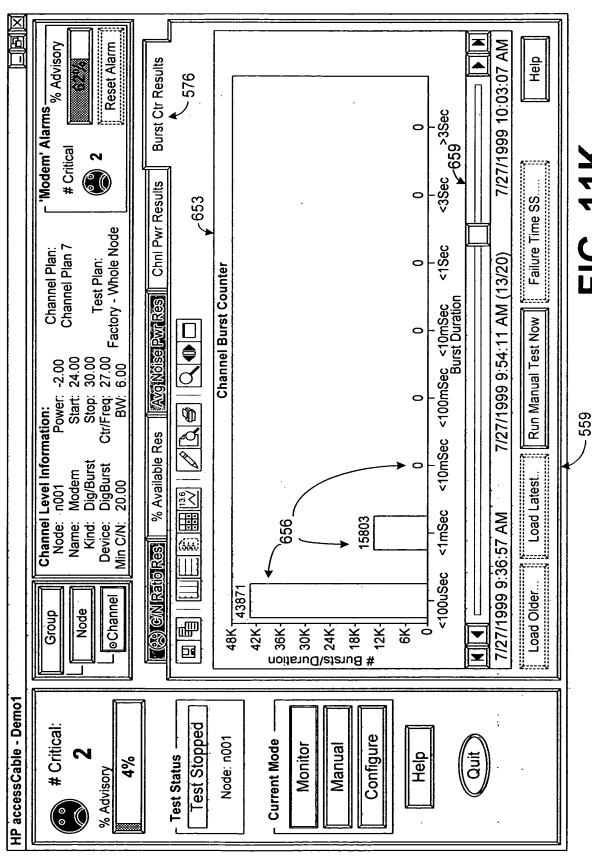
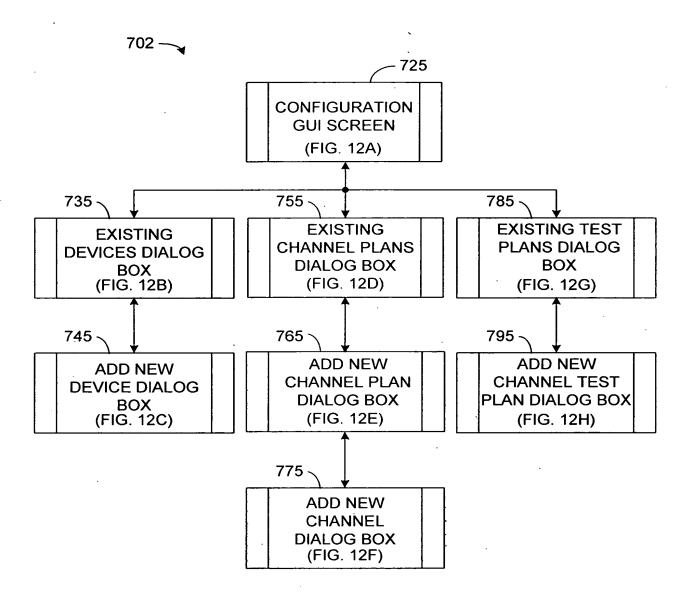


FIG. 11X

550e

# TEST CONFIGURATION GUI NAVIGATION



**FIG. 12** 

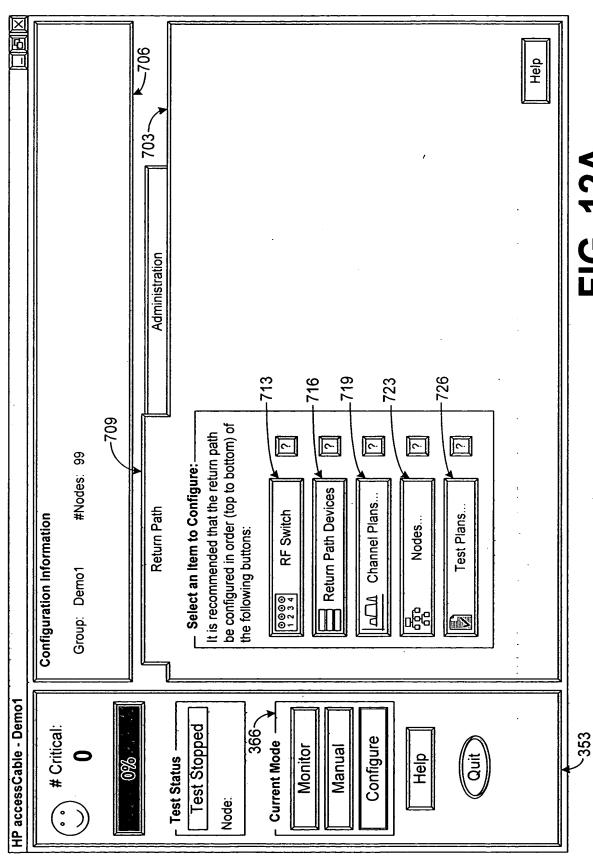


FIG. 12A

7002

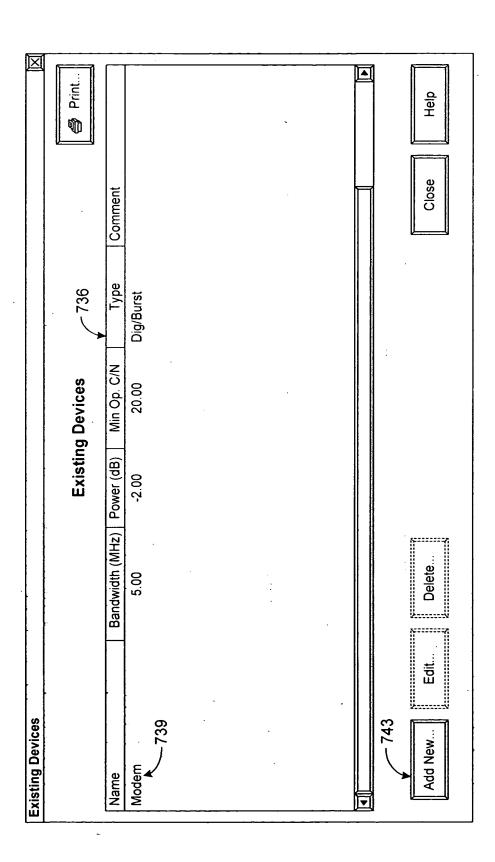
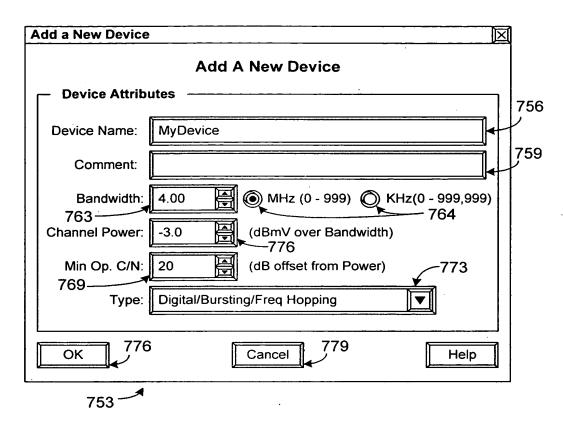


FIG. 12B

733 -



**FIG. 12C** 

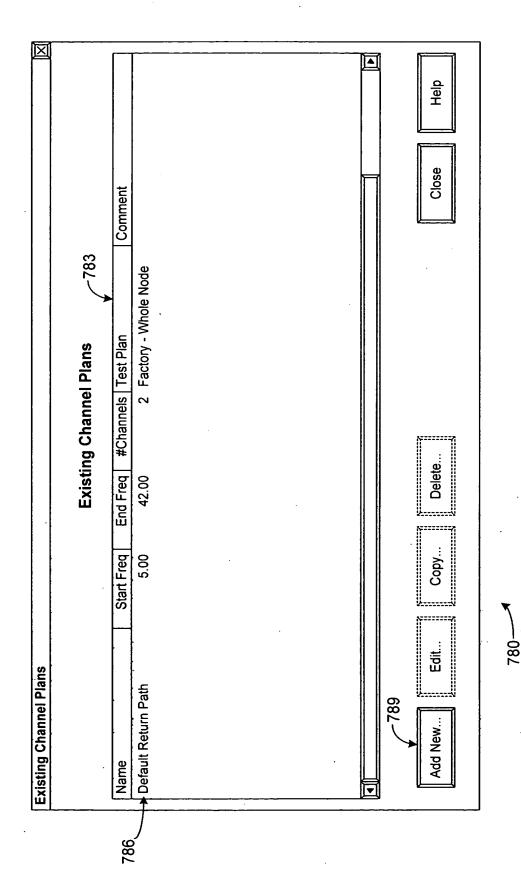


FIG. 12D

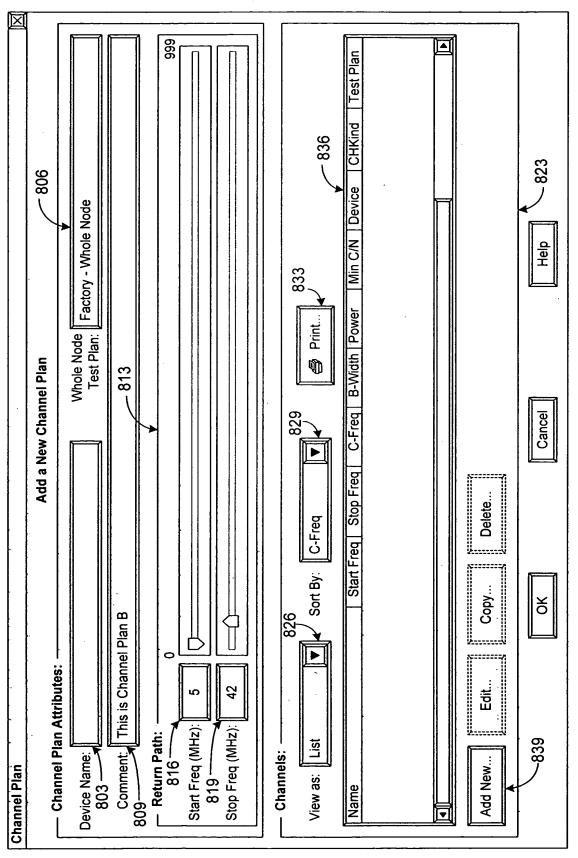


FIG. 12E

800

Add a New Channel		
Add A New Channel		
Name: ChannelA 853		
Center Frequency 856 Cnt Freq (MHz) 13.0		
Values from a Device Device: MyDevice ✓ Values Specified Below (Description)		
Bandwidth: 4.00 (MHz) 866 869 Channel Power: -3.0 (dBmV over Bandwidth) 873		
Min Op. C/N: 20 (dB offset from Power) 876		
Channel Type: MyDevice		
Test Plan: Factory - Digital Burst FreqHopping Channel		
OK Cancel Help		
881 883		

FIG. 12F

-850

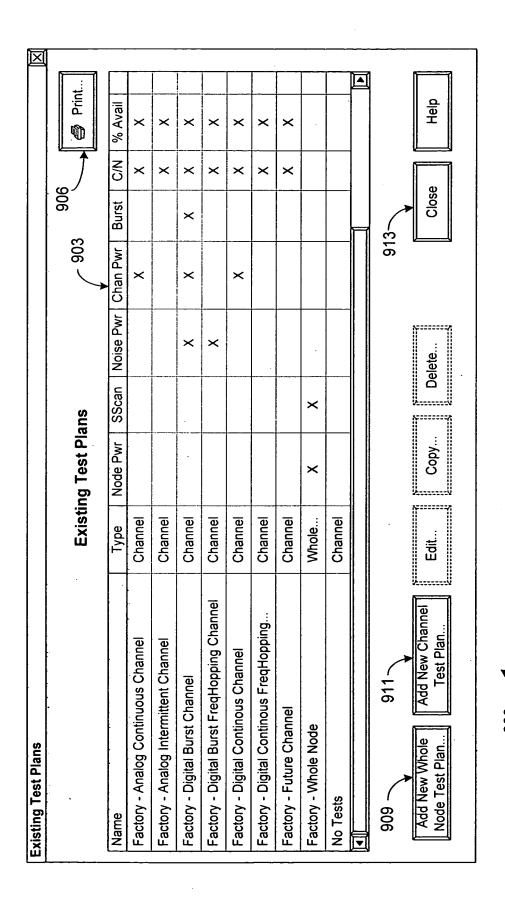


FIG. 12G

Add a New Channel Test Plan		
Add A New Channel Test Plan		
Test Plan Name: Test Plan 27	·	
Disable All Critical Alarms  941  993  Available Tests and Alarm Limits  Disable All Advisory Alarms  971  995  930		
Average Noise Power  Alarm limits are relative to expected channel power minus min op c/n for the channel.  Critical > 3	Channel Power  Alarm limits are relative to expected channel power level. 973 974 975  Critical > 3 or < 3 (dB) 979  Advisory > 3 or < 3 (dB)  978 980  Alarm limits are absolute percentages. 983  Critical < 60 % 989  Advisory < 90 % 989	
997 OK 999 Cancel Help		

FIG. 12H

925 -